

A close-up photograph of a wooden shingle roof. The shingles are arranged in a traditional overlapping pattern, showing various shades of brown and tan. A semi-transparent dark grey rectangular box is overlaid on the center of the image, containing white text. The background shows a clear blue sky and some green foliage on the left side.

# Protection & repair

Wood



# What are the occurring problems with wood?

- 1 ● Rot and Decay:** Exposure to moisture, especially in areas prone to high humidity or water leaks, can lead to rot and decay in wooden structures. This can weaken the integrity of the wood and compromise the structural stability of the building.
- 2 ● Insect Infestation:** Wood-boring insects such as termites, carpenter ants, and beetles can cause significant damage to wooden components of buildings. They tunnel through the wood, weakening it and potentially causing structural failure if left untreated.
- 3 ● Fungal Growth:** Mold and mildew can thrive on wooden surfaces, especially in damp or poorly ventilated areas. Besides being unsightly, fungal growth can also degrade the wood over time, leading to rot and decay.
- 4 ● Weathering and Aging:** Exposure to sunlight, rain, wind, and temperature fluctuations can cause wood to weather and age over time. This may result in cracks, warping, splitting, or discoloration, affecting both the appearance and structural integrity of the wood.



## What are the occurring problems with wood?

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- 5. Wood Movement:** Changes in humidity and temperature can cause wood to expand or contract, leading to issues such as gaps between boards, buckling, or cupping. This can affect the functionality of doors, windows, and other wooden elements.
- 6. Foundation Settlement:** Settlement or shifting of the building's foundation can cause stress on wooden structural elements, leading to cracks or unevenness in floors, walls, or ceilings.
- 7. Joint Failure:** Joints and connections between wooden components, such as beams, joists, or rafters, may weaken over time due to wear and tear or inadequate construction practices. This can compromise the stability of the building.
- 8. Water Damage:** Water intrusion through leaks in the roof, windows, or plumbing can cause water damage to wooden structures, leading to rot, decay, and mold growth.
- 9. Fire Damage:** In the event of a fire, wooden components of the building can be damaged or destroyed, requiring repair or replacement.

# Logic UW

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- Logic UW is a unique product based on epoxy resin, free from foam or other additives.
- Its innovative technology allows it to spread effortlessly through pores, effectively repairing even the smallest capillary cracks.
- Unlike traditional products, Logic UW does not dissolve in water, ensuring it won't contaminate drinking water sources.
- Moreover, it is formulated without harmful ingredients or vapors, making it safe for use on porous surfaces without causing damage. This versatility and safety make Logic UW an ideal choice for various repair applications where water resistance and environmental friendliness are paramount.



Bigger and smaller cracks  
can be repaired with  
**Logic UW**

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# What is Logic Wood?

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- Hydrophobic + oleophobic wood protection indoors and outdoors
- LogicWood is a special, innovative impregnation to protect wood against the absorption of liquids such as:



**Water**



**Watery or greasy dirt**



**Oil**

- LogicWood preserves natural wood properties without pore clogging
- Enables continuous moisture exchange with ambient air
- Special polymer with low surface tension and high UV resistance
- Total SPF of > 800 significantly slows down wood graying
- Maintains wood's natural appearance even under strong sunlight exposure

# Logic Wood

- LogicWood protects wood fibers (lignin and cellulose) with a thin polymer film
- Polymer molecules are pico-sized, about 1000 times smaller than nanoparticles
- Forms a closed protective film even with thin film thicknesses
- Prevents lignin degradation by UV radiation
- Maintains low moisture balance, depriving microorganisms of water
- Protects wood without chemical biocides, using purely physical (mechanical) effect
- LogicWood was specially developed for the protection of wood and is not suitable for mineral building materials.



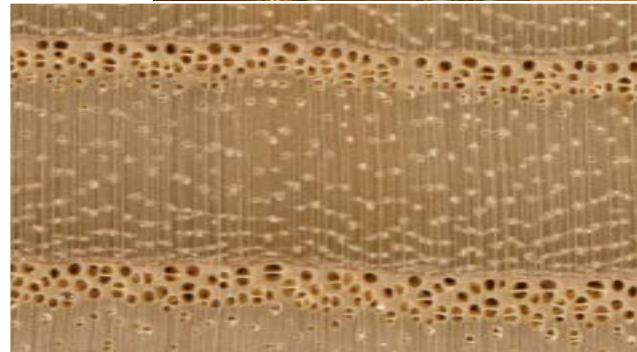
20 year guarantee  
logo, vegan and  
biofriendly stamp

# Wood

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- The pores of wood vary a lot
- Wood is alive and breathes
- To find a suitable coating that doesn't harm the nature is rare
- 20 Year warranty on the lasting effect of the product
- Logic Wood leaves a coating that protects against, water, dirt and oil but still leaves the pores open

LOGIC CHEMIE





# Production Colours

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# Technical info

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**2. PH-Neutral**



# Where to use?

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Floor



Wardrobe



Sauna



Bench



Table



Wall



Outdoor furniture



Arbor



Window



Sunbed

# Areas of application

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